



**Mês de: Março 2011**

**GRUPO DE TRABALHO EM QUESTÕES LÓGICAS (GTQL/WGLQ)**

**Dia 10 de Março (quinta-feira), às 15h, na Sala B2-01**

**“WELL-ORDERING PRINCIPLES AND REVERSE MATHEMATICS”**

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**Abstract:**

In recent years several results about the equivalence of familiar theories of reverse mathematics with certain well-ordering principles have been proved by Friedman, Marcone, Montalban and Weiermann, using rather sophisticated recursion-theoretic and combinatorial results about linear orderings. These theorems, albeit not their proofs, have an air about them reminiscent of cut elimination theorems in infinitary logics. It prompted me to look for purely proof-theoretic ways of proving them. The hope was that this would unearth a general pattern behind them and lead to more and more general results of this kind.

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